



VGf-USPTO2.ST25.txt
SEQUENCE LISTING

<110> Lamping, Norbert
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Hess, Rudiger
Kellmann, Markus
Selle, Hartmut

<120> Method for detecting chronic dementia diseases, and corresponding
VGf peptides and detection reagents

<130> 03100185aa

<140> US 10/680,087

<141> 2003-10-06

<150> PCT/DE02/01376

<151> 2002-04-08

<150> DE 101 17 431.4

<151> 2001-04-06

<160> 46

<170> PatentIn version 3.2

<210> 1

<211> 37

<212> PRT

<213> Homo sapiens

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Ala Pro Pro Gly Arg Pro Glu Ala Gln Pro Pro Pro Leu Ser Ser Glu
1 5 10 15

His Lys Glu Pro Val Ala Gly Asp Ala Val Pro Gly Pro Lys Asp Gly
20 25 30

Ser Ala Pro Glu Val
35

<210> 2

<211> 40

<212> PRT

<213> homo sapiens

<400> 2

Ala Pro Pro Gly Arg Pro Glu Ala Gln Pro Pro Pro Leu Ser Ser Glu
1 5 10 15

His Lys Glu Pro Val Ala Gly Asp Ala Val Pro Gly Pro Lys Asp Gly
20 25 30

Ser Ala Pro Glu Val Arg Gly Ala

35

40

<210> 3
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<400> 3

Pro Pro Gly Arg Pro Glu Ala Gln Pro Pro Pro Leu Ser Ser Glu His
1 5 10 15

Lys Glu Pro Val Ala Gly Asp Ala Val Pro Gly Pro Lys Asp Gly Ser
20 25 30

Ala Pro Glu Val
35

<210> 4
<211> 39
<212> PRT
<213> homo sapiens

<400> 4

Pro Pro Gly Arg Pro Glu Ala Gln Pro Pro Pro Leu Ser Ser Glu His
1 5 10 15

Lys Glu Pro Val Ala Gly Asp Ala Val Pro Gly Pro Lys Asp Gly Ser
20 25 30

Ala Pro Glu Val Arg Gly Ala
35

<210> 5
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<400> 5

Gly Arg Pro Glu Ala Gln Pro Pro Pro Leu Ser Ser Glu His Lys Glu
1 5 10 15

Pro Val Ala Gly Asp Ala Val Pro Gly Pro Lys Asp Gly Ser Ala Pro
20 25 30

Glu Val

<210> 6
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<213> homo sapiens

<400> 6

Gly Arg Pro Glu Ala Gln Pro Pro Pro Leu Ser Ser Glu His Lys Glu
1 5 10 15

Pro Val Ala Gly Asp Ala Val Pro Gly Pro Lys Asp Gly Ser Ala Pro
20 25 30

Glu Val Arg Gly
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<210> 7

<211> 37

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<213> homo sapiens

<400> 7

Gly Arg Pro Glu Ala Gln Pro Pro Pro Leu Ser Ser Glu His Lys Glu
1 5 10 15

Pro Val Ala Gly Asp Ala Val Pro Gly Pro Lys Asp Gly Ser Ala Pro
20 25 30

Glu Val Arg Gly Ala
35

<210> 8

<211> 14

<212> PRT

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Pro Gly Pro Lys Asp Gly Ser Ala Pro Glu Val Arg Gly Ala
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<210> 9

<211> 68

<212> PRT

<213> homo sapiens

<400> 9

Leu Gln Glu Ala Ala Glu Glu Arg Glu Ser Ala Arg Glu Glu Glu Glu
1 5 10 15

Ala Glu Gln Glu Arg Arg Gly Gly Glu Glu Arg Val Gly Glu Glu Asp
20 25 30

Glu Glu Ala Ala Glu Ala Ala Glu Ala Glu Ala Asp Glu Ala Glu Arg
35 40 45

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Ala Arg Gln Asn Ala Leu Leu Phe Ala Glu Glu Glu Asp Gly Glu Ala
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Gly Ala Glu Asp
65

<210> 10
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<213> homo sapiens

<400> 10

Ser Gln Glu Glu Thr Pro Gly His Arg Arg Lys Glu Ala Glu Gly Thr
1 5 10 15

Glu Glu Gly Gly Glu Glu Glu Asp Asp Glu Glu Met Asp Pro Gln Thr
20 25 30

Ile Asp Ser Leu Ile Glu Leu Ser Thr Lys Leu His Leu Pro Ala Asp
35 40 45

Asp Val Val Ser
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<210> 11
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<213> homo sapiens

<400> 11

Ser Gln Glu Glu Thr Pro Gly His Arg Arg Lys Glu Ala Glu Gly Thr
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Glu Glu Gly Gly Glu Glu Glu Asp Asp Glu Glu Met Asp Pro Gln Thr
20 25 30

Ile Asp Ser Leu Ile Glu Leu Ser Thr Lys Leu His Leu Pro Ala Asp
35 40 45

Asp Val Val Ser Ile Ile Glu Glu Val Glu Glu
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<210> 12
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VGf-USPTO2.ST25.txt

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 C-terminal extension r2 possible; r2 represents the VGf protein

<400> 12

Gly Pro Lys Asp Gly Ser Ala Pro
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<210> 13
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<220>
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<400> 13

Glu Asp Glu Glu Ala Ala Glu Ala
 1 5

<210> 14
 <211> 8
 <212> PRT
 <213> homo sapiens

<220>
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Glu Glu Met Asp Pro Gln Thr Ile
 1 5

<210> 15
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 <212> PRT
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<400> 15

Ala Pro Pro Gly Arg Pro Glu Ala Gln Pro Pro Pro Leu Ser Ser Glu
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VGf-USPTO2.ST25.txt

His Lys Glu Pro Val Ala Gly Asp Ala Val Pro Gly Pro Lys Asp Gly
20 25 30

Ser Ala Pro Glu
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<210> 16
<211> 33
<212> PRT
<213> homo sapiens

<400> 16

Gly Arg Pro Glu Ala Gln Pro Pro Pro Leu Ser Ser Glu His Lys Glu
1 5 10 15

Pro Val Ala Gly Asp Ala Val Pro Gly Pro Lys Asp Gly Ser Ala Pro
20 25 30

Glu

<210> 17
<211> 32
<212> PRT
<213> homo sapiens

<400> 17

Gly Arg Pro Glu Ala Gln Pro Pro Pro Leu Ser Ser Glu His Lys Glu
1 5 10 15

Pro Val Ala Gly Asp Ala Val Pro Gly Pro Lys Asp Gly Ser Ala Pro
20 25 30

<210> 18
<211> 39
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<213> homo sapiens

<400> 18

Gly Arg Pro Glu Ala Gln Pro Pro Pro Leu Ser Ser Glu His Lys Glu
1 5 10 15

Pro Val Ala Gly Asp Ala Val Pro Gly Pro Lys Asp Gly Ser Ala Pro
20 25 30

Glu Val Arg Gly Ala Arg Asn
35

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<210> 19
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<400> 19

Leu Asp Arg Pro Ala Ser Pro Pro Ala Pro Ser Gly Ser Gln Gln Gly
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Pro Glu Glu Glu Ala Ala Glu Ala Leu
 20 25

<210> 20
 <211> 8
 <212> PRT
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<220>
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 <223> N-terminal extension r7 possible; r7 represents a sequence which
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 protein from amino acid 38-23;

C-terminal extension r8 possible; r8 represents the VGf protein

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His Lys Glu Pro Val Ala Gly Asp
 1 5

<210> 21
 <211> 8
 <212> PRT
 <213> homo sapiens

<220>
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 protein from amino acid 97-90;

C-terminal extension r10 possible; r10 represents the VGf protein

<400> 21

Ala Pro Ser Gly Ser Gln Gln Gly
 1 5

<210> 22
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<400> 22

VGf-USPTO2.ST25.txt

Ser Gln Thr His Ser Leu Pro Ala Pro Glu Ser Pro Glu Pro Ala Ala
1 5 10 15

Pro Pro Arg Pro Gln Thr Pro Glu Asn Gly Pro Glu Ala Ser Asp Pro
20 25 30

Ser Glu Glu Leu
35

<210> 23
<211> 11
<212> PRT
<213> homo sapiens

<400> 23

Gln Glu Leu Arg Asp Phe Ser Pro Ser Ser Ala
1 5 10

<210> 24
<211> 8
<212> PRT
<213> homo sapiens

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C-terminal extension r12 possible; r12 represents the VGf protein

<220>
<221> MISC_FEATURE
<223> N-terminal extension r11 possible; r11 represents a sequence
which corresponds to the sequence or parts of the sequence of the
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possible; r12 represents the VGf protein sequence from amino acid

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Glu Pro Ala Ala Pro Pro Arg Pro
1 5

<210> 25
<211> 18
<212> PRT
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<400> 25

Gly Leu Gln Glu Ala Ala Glu Glu Arg Glu Ser Ala Arg Glu Glu Glu
1 5 10 15

Glu Ala

<210> 26
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<400> 26

Gly Leu Gln Glu Ala Ala Glu Glu Arg Glu Ser Ala Arg Glu Glu Glu
 1 5 10 15

Glu Ala Glu Gln Glu
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<210> 27
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Gly Gly Glu Glu Arg Val Gly Glu Glu Asp Glu Glu Ala Ala Glu Ala
 1 5 10 15

Glu Ala Glu Ala Glu Glu Ala Glu Arg Ala Arg Gln Asn Ala Leu Leu
 20 25 30

Phe Ala Glu Glu Glu Asp Gly Glu Ala Gly Ala Glu Asp
 35 40 45

<210> 28
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<400> 28

Gly Gly Glu Glu Arg Val Gly Glu Glu Asp Glu Glu Ala Ala Glu Ala
 1 5 10 15

Glu Ala Glu Ala Glu Glu Ala Glu Arg Ala Arg Gln Asn Ala Leu Leu
 20 25 30

<210> 29
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 <212> PRT
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<400> 29

Gly Glu Glu Arg Val Gly Glu Glu Asp Glu Glu Ala Ala Glu Ala Ala
 1 5 10 15

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Glu Ala Glu Ala Asp Glu Ala Glu Arg Ala Arg Gln Asn Ala Leu Leu
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Phe Ala Glu Glu Glu Asp Gly Glu Ala Gly Ala Glu Asp
 35 40 45

<210> 30
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<400> 30

Ser Gln Glu Glu Thr Pro Gly His Arg Arg Lys Glu Ala Glu Gly Thr
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Glu Glu Gly Gly Glu Glu Glu Asp Asp Glu Glu Met Asp Pro Gln Thr
 20 25 30

Ile Asp Ser Leu
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<210> 31
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 <212> PRT
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<400> 31

Ser Thr Lys Leu His Leu Pro Ala Asp Asp Val Val Ser
 1 5 10

<210> 32
 <211> 8
 <212> PRT
 <213> homo sapiens

<220>
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 <223> N-terminal extension r13 possible; r13 represents a sequence
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<400> 32

Ala Glu Glu Arg Glu Ser Ala Arg
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<210> 33
 <211> 38
 <212> PRT

<213> homo sapiens

<400> 33

Asn Ala Pro Pro Glu Pro Val Pro Pro Pro Arg Ala Ala Pro Ala Pro
1 5 10 15

Thr His Val Arg Ser Pro Gln Pro Pro Pro Pro Ala Pro Ala Pro Ala
20 25 30

Arg Asp Glu Leu Pro Asp
35

<210> 34

<211> 37

<212> PRT

<213> homo sapiens

<400> 34

Asn Ala Pro Pro Glu Pro Val Pro Pro Pro Arg Ala Ala Pro Ala Pro
1 5 10 15

Thr His Val Arg Ser Pro Gln Pro Pro Pro Pro Ala Pro Ala Pro Ala
20 25 30

Arg Asp Glu Leu Pro
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<210> 35

<211> 8

<212> PRT

<213> homo sapiens

<220>

<221> MISC_FEATURE

<223> N-terminal extension r15 possible; r15 represents a sequence
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possible; r16 represents the VGf protein sequence from amino acid

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Pro Thr His Val Arg Ser Pro Gln
1 5

<210> 36

<211> 6

<212> PRT

<213> Homo sapiens

<400> 36

Gly Arg Pro Glu Ala Gln

1

5

<210> 37
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 37

Pro Gly Arg Pro Glu Ala Gln Pro Pro Pro Leu Ser Ser Glu His Lys
 1 5 10 15

Glu Pro Val Ala Gly Asp Ala Val Pro Gly Pro Lys Asp Gly Ser Ala
 20 25 30

Pro Glu Val Arg Gly Ala
 35

<210> 38
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 38

Gln Gln Glu Thr Ala Ala Ala Glu Thr Glu Thr Arg Thr His Thr Leu
 1 5 10 15

Thr

<210> 39
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 39

Gln Gln Glu Thr Ala Ala Ala Glu Thr Glu Thr Arg Thr His Thr
 1 5 10 15

<210> 40
 <211> 8
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MISC_FEATURE
 <223> N-terminal extension r17 possible; r17 represents a sequence
 which corresponds to the sequence or parts of the sequence of the
 VGf protein from amino acid 179-177; C-terminal extension r18
 possible; r18 represents the VGf protein sequence from amino acid

<400> 40

Thr Ala Ala Ala Glu Thr Glu Thr
1 5

<210> 41
<211> 31
<212> PRT
<213> Homo sapiens
<400> 41

Gly Glu Glu Arg Val Gly Glu Glu Asp Glu Glu Ala Ala Glu Ala Ala
1 5 10 15

Glu Ala Glu Ala Asp Glu Ala Glu Arg Ala Arg Gln Asn Ala Leu
20 25 30

<210> 42
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<213> Homo sapiens
<400> 42

Ile Glu Leu Ser Thr Lys Leu His Leu Pro Ala Asp Asp Val Val Ser
1 5 10 15

Ile Ile Glu Glu
20

<210> 43
<211> 616
<212> PRT
<213> Homo sapiens
<400> 43

Met Lys Ala Leu Arg Leu Ser Ala Ser Ala Leu Phe Cys Leu Leu Leu
1 5 10 15

Ile Asn Gly Leu Gly Ala Ala Pro Pro Gly Arg Pro Glu Ala Gln Pro
20 25 30

Pro Pro Leu Ser Ser Glu His Lys Glu Pro Val Ala Gly Asp Ala Val
35 40 45

Pro Gly Pro Lys Asp Gly Ser Ala Pro Glu Val Arg Gly Ala Arg Asn
50 55 60

Ser Glu Pro Gln Asp Glu Gly Glu Leu Phe Gln Gly Val Asp Pro Arg
65 70 75 80

Ala Leu Ala Ala Val Leu Leu Gln Ala Leu Asp Arg Pro Ala Ser Pro
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Pro Ala Pro Ser Gly Ser Gln Gln Gly Pro Glu Glu Glu Ala Ala Glu
 100 105 110
 Ala Leu Leu Thr Glu Thr Val Arg Ser Gln Thr His Ser Leu Pro Ala
 115 120 125
 Ala Gly Glu Pro Glu Pro Ala Ala Pro Pro Arg Pro Gln Thr Pro Glu
 130 135 140
 Asn Gly Pro Glu Ala Ser Asp Pro Ser Glu Glu Leu Glu Ala Leu Ala
 145 150 155 160
 Ser Leu Leu Gln Glu Leu Arg Asp Phe Ser Pro Ser Ser Ala Lys Arg
 165 170 175
 Gln Gln Glu Thr Ala Ala Ala Glu Thr Glu Thr Arg Thr His Thr Leu
 180 185 190
 Thr Arg Val Asn Leu Glu Ser Pro Gly Pro Glu Arg Val Trp Arg Ala
 195 200 205
 Ser Trp Gly Glu Phe Gln Ala Arg Val Pro Glu Arg Ala Pro Leu Pro
 210 215 220
 Pro Pro Ala Pro Ser Gln Phe Gln Ala Arg Met Pro Asp Ser Gly Pro
 225 230 235 240
 Leu Pro Glu Thr His Lys Phe Gly Glu Gly Val Ser Ser Pro Lys Thr
 245 250 255
 His Leu Gly Glu Ala Leu Ala Pro Leu Ser Lys Ala Tyr Gln Gly Val
 260 265 270
 Ala Ala Pro Phe Pro Lys Ala Arg Arg Ala Glu Ser Ala Leu Leu Gly
 275 280 285
 Gly Ser Glu Ala Gly Glu Arg Leu Leu Gln Gln Gly Leu Ala Gln Val
 290 295 300
 Glu Ala Gly Arg Arg Gln Ala Glu Ala Thr Arg Gln Ala Ala Ala Gln
 305 310 315 320
 Glu Glu Arg Leu Ala Asp Leu Ala Ser Asp Leu Leu Leu Gln Tyr Leu
 325 330 335

Leu Gln Gly Gly Ala Arg Gln Arg Gly Leu Gly Gly Arg Gly Leu Gln
340 345 350

Glu Ala Ala Glu Glu Arg Glu Ser Ala Arg Glu Glu Glu Glu Ala Glu
355 360 365

Gln Glu Arg Arg Gly Gly Glu Glu Arg Val Gly Glu Glu Asp Glu Glu
370 375 380

Ala Ala Glu Ala Ala Glu Ala Glu Ala Asp Glu Ala Glu Arg Ala Arg
385 390 395 400

Gln Asn Ala Leu Leu Phe Ala Glu Glu Glu Asp Gly Glu Ala Gly Ala
405 410 415

Glu Asp Lys Arg Ser Gln Glu Glu Thr Pro Gly His Arg Arg Lys Glu
420 425 430

Ala Glu Gly Thr Glu Glu Gly Gly Glu Glu Glu Asp Asp Glu Glu Met
435 440 445

Asp Pro Gln Thr Ile Asp Ser Leu Ile Glu Leu Ser Thr Lys Leu His
450 455 460

Leu Pro Ala Asp Asp Val Val Ser Ile Ile Glu Glu Val Glu Glu Lys
465 470 475 480

Arg Asn Arg Lys Lys Lys Ala Pro Pro Glu Pro Val Pro Pro Pro Arg
485 490 495

Ala Ala Pro Ala Pro Thr His Val Arg Ser Pro Gln Pro Pro Pro Pro
500 505 510

Pro Pro Ser Ala Arg Asp Glu Leu Pro Asp Trp Asn Glu Val Leu Pro
515 520 525

Pro Trp Asp Arg Glu Glu Asp Glu Val Tyr Pro Pro Gly Pro Tyr His
530 535 540

Pro Phe Pro Asn Tyr Ile Arg Pro Arg Thr Leu Gln Pro Pro Ser Ala
545 550 555 560

Leu Arg Arg Arg His Tyr His His Ala Leu Pro Pro Ser Arg His Tyr
565 570 575

Pro Gly Arg Glu Ala Gln Ala Arg His Ala Gln Gln Glu Glu Ala Glu
580 585 590

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Ala Glu Glu Arg Arg Leu Gln Glu Gln Glu Glu Leu Glu Asn Tyr Ile
595 600 605

Glu His Val Leu Leu Arg Arg Pro
610 615

<210> 44
<211> 615
<212> PRT
<213> Homo sapiens

<400> 44

Met Lys Ala Leu Arg Leu Ser Ala Ser Ala Leu Phe Cys Leu Leu Leu
1 5 10 15

Ile Asn Gly Leu Gly Ala Ala Pro Pro Gly Arg Pro Glu Ala Gln Pro
20 25 30

Pro Pro Leu Ser Ser Glu His Lys Glu Pro Val Ala Gly Asp Ala Val
35 40 45

Pro Gly Pro Lys Asp Gly Ser Ala Pro Glu Val Arg Gly Ala Arg Asn
50 55 60

Ser Glu Pro Gln Asp Glu Gly Glu Leu Phe Gln Gly Val Asp Pro Arg
65 70 75 80

Ala Leu Ala Ala Val Leu Leu Gln Ala Leu Asp Arg Pro Ala Ser Pro
85 90 95

Pro Ala Pro Ser Gly Ser Gln Gln Gly Pro Glu Glu Glu Ala Ala Glu
100 105 110

Ala Leu Leu Thr Glu Thr Val Arg Ser Gln Thr His Ser Leu Pro Ala
115 120 125

Pro Glu Ser Pro Glu Pro Ala Ala Pro Pro Arg Pro Gln Thr Pro Glu
130 135 140

Asn Gly Pro Glu Ala Ser Asp Pro Ser Glu Glu Leu Glu Ala Leu Ala
145 150 155 160

Ser Leu Leu Gln Glu Leu Arg Asp Phe Ser Pro Ser Ser Ala Lys Arg
165 170 175

Gln Gln Glu Thr Ala Ala Ala Glu Thr Glu Thr Arg Thr His Thr Leu
180 185 190

VGf-USPTO2.ST25.txt

Thr Arg Val Asn Leu Glu Ser Pro Gly Pro Glu Arg Val Trp Arg Ala
195 200 205

Ser Trp Gly Glu Phe Gln Ala Arg Val Pro Glu Arg Ala Pro Leu Pro
210 215 220

Pro Pro Ala Pro Ser Gln Phe Gln Ala Arg Met Pro Asp Ser Gly Pro
225 230 235 240

Leu Pro Glu Thr His Lys Phe Gly Glu Gly Val Ser Ser Pro Lys Thr
245 250 255

His Leu Gly Glu Ala Leu Ala Pro Leu Ser Lys Ala Tyr Gln Gly Val
260 265 270

Ala Ala Pro Phe Pro Lys Ala Arg Arg Pro Glu Ser Ala Leu Leu Gly
275 280 285

Gly Ser Glu Ala Gly Glu Arg Leu Leu Gln Gln Gly Leu Ala Gln Val
290 295 300

Glu Ala Gly Arg Arg Gln Ala Glu Ala Thr Arg Gln Ala Ala Ala Gln
305 310 315 320

Glu Glu Arg Leu Ala Asp Leu Ala Ser Asp Leu Leu Leu Gln Tyr Leu
325 330 335

Leu Gln Gly Gly Ala Arg Gln Arg Gly Leu Gly Gly Arg Gly Leu Gln
340 345 350

Glu Ala Ala Glu Glu Arg Glu Ser Ala Arg Glu Glu Glu Glu Ala Glu
355 360 365

Gln Glu Arg Arg Gly Gly Glu Glu Arg Val Gly Glu Glu Asp Glu Glu
370 375 380

Ala Ala Glu Ala Glu Ala Glu Ala Glu Glu Ala Glu Arg Ala Arg Gln
385 390 395 400

Asn Ala Leu Leu Phe Ala Glu Glu Glu Asp Gly Glu Ala Gly Ala Glu
405 410 415

Asp Lys Arg Ser Gln Glu Glu Thr Pro Gly His Arg Arg Lys Glu Ala
420 425 430

Glu Gly Thr Glu Glu Gly Gly Glu Glu Glu Asp Asp Glu Glu Met Asp
435 440 445

VGf-USPTO2.ST25.txt

Pro Gln Thr Ile Asp Ser Leu Ile Glu Leu Ser Thr Lys Leu His Leu
450 455 460

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465 470 475 480

Lys Arg Lys Lys Asn Ala Pro Pro Glu Pro Val Pro Pro Pro Arg Ala
485 490 495

Ala Pro Ala Pro Thr His Val Arg Ser Pro Gln Pro Pro Pro Pro Ala
500 505 510

Pro Ala Pro Ala Arg Asp Glu Leu Pro Asp Trp Asn Glu Val Leu Pro
515 520 525

Pro Trp Asp Arg Glu Glu Asp Glu Val Tyr Pro Pro Gly Pro Tyr His
530 535 540

Pro Phe Pro Asn Tyr Ile Arg Pro Arg Thr Leu Gln Pro Pro Ser Ala
545 550 555 560

Leu Arg Arg Arg His Tyr His His Ala Leu Pro Pro Ser Arg His Tyr
565 570 575

Pro Gly Arg Glu Ala Gln Ala Arg Arg Ala Gln Glu Glu Ala Glu Ala
580 585 590

Glu Glu Arg Arg Leu Gln Glu Gln Glu Glu Leu Glu Asn Tyr Ile Glu
595 600 605

His Val Leu Leu Arg Arg Pro
610 615

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<213> Homo sapiens

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